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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/558,445	11/06/2006	Pamela Whitfield	11495-1	6120
	7590 11/15/2007 ESEARCH COUNCIL OI	EXAMINER		
1200 MONTREAL ROAD BLDG M-58, ROOM EG12 OTTAWA, ONTARIO, K1A 0R6 CANADA			MAIGA, FATOU G	
			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/558,445	WHITFIELD ET AL.			
		Examiner	Art Unit			
	·	Fatou Gisele Maiga	1795			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tinuity  17(iii) apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>28 November 2005</u> .					
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)□	) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-10</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrav  Claim(s) is/are allowed.  Claim(s) <u>1-10</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or					
Applicati	on Papers					
·	The specification is objected to by the Examine					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No.</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kazuhara et al. JP 2001-023617.

With respect to claims 1 and 6, Kazuhara discloses a lithium metal-oxide electrode in a lithium ion cell charged to a high voltage of 4.2-4.5 volts (page 5, paragraph 0017) having a layer structure of general formula  $\text{Li}_a \, \text{Mn}_y \, \text{M}_{1^-y} \, \text{O}_2$  with  $0 \le x \le 1.1$ , and  $0.5 \le y \le 1$  (page 4, paragraph 0013), where M can be Co, Ni, Fe, or Cr (page 4, paragraph 0013-0014) elements of the first row transition metals. The manganese has the 4+ oxidation state since the general formula above is the same to that of the instant claim.

In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, Application/Control Number:

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191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed.Cir. 1990).

With respect to claims 2, 3, 4, 7 8, and 9, Kazuhara discloses that M can be Co, Ni, Fe, Cr or Al (page 3, paragraph 0013) elements of the first row transition metals.

With respect to claim 5, Kazuhara discloses that the lithium metal-oxide electrode is for use in a non-aqueous lithium cell (page 2, paragraph 0004).

With respect to claim 10, Kazuhara discloses that the non-aqueous lithium cell is operating at a voltage of 4.2-4.5 V (page 5, paragraph 0017).

In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed.Cir. 1990).

## Conclusion:

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fatou Gisele Maiga whose telephone number is (571) 272-9804. The examiner can normally be reached on Monday-Friday 7:30-5:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on (571) 272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SUPERVISORY PATENT EXAMINER